

# DH-IPC-HFW2431T-AS-S2

4MP Lite IR Fixed-focal Bullet Network Camera



#### **Series Overview**

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67 and IK10 (Supported by some select models).

### **Functions**

## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

## WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

# Starlight

Dahua Starlight technology mainly applies to the environment of low illuminance, and it can provide clear colorful video. Even in the environment of ultra-low illuminance, the technology can guarantee the good image effect.

- · 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- · Outputs max. 4MP (2688 × 1520) @20 fps, and supports 2560×1440 (2560 × 1440) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in IR LED, max IR distance: 80 m
- $\cdot$  RoI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- · Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- · Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, local alarm, voltage detection, audio detection
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 GB Micro SD card
- · 12V DC/POE power support supply
- · IP67 protection, IK10 protection (optional)













#### IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

# **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

### Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Technical Specification								2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);
Camera							Resolution	3M (2048 × 1536); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/3" 4Megapixel progressive CMOS						
Max. Resolution		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
RAM		128 MB					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					HLC	Yes
Min. Illumination		0.008 Lux@F1.6					WDR	120 dB
S/N Ratio		> 56 dB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Illumination Distance		80 m (262.5 ft)						custom
Illuminator On/C	Off Control	Auto/Manual					Gain Control	Auto/Manual
Illuminator Num	ber	4 (IR LED)					Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-90°					Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens		Fixed feed					Smart Illumination	Yes
Lens Type  Mount Type		Fixed-focal M12					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Supports $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)
Focal Length		3.6 mm; 6 mm; 8 mm					Mirror	Yes
i ocai Lengui		3.6 mm: F1.6					Privacy Masking	4 areas
Max. Aperture		6 mm: F1.6 8 mm: F1.6					Audio	
Field of View		3.6 mm: Horizontal 84° × Vertical 45° × Diagonal 100° 6 mm: Horizontal 52° × Vertical 28° × Diagonal 61°					Audio Compression	G.711a; G.711Mu; G.726
		8 mm: Horizontal 40° × Vertical 23° × Diagonal 45°					Alarm	
Iris Type  Close Focus Distance		Fixed  3.6 mm: 1.4 m (4.6 ft) 6 mm: 3.1 m (10.2 ft) 8 mm:4.9 m(16.1 ft)					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; security exception; local alarm
	Lens	Detect	Observe	Recognize	Identify		Network	
	3.6 mm	80 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		Network	RJ-45 (10/100 Base-T)
DORI Distance	6 mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)		SDK and API	Yes
	8 mm	160.0 m (524.9 ft)	64.0 m (210.0 ft)	32.0 m (105.0 ft)	16.0m (52.5 ft)		Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Smart Event								certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
ıvs Video		Tripwire; intrusion					Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Smart Codec		Smart H.265+/ Smart H.264+					User/Host	20
Video Frame Rate		Main stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)					Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
							Browser	IE Chrome Firefox
Stream Capability		2 streams					Management Software	Smart PSS; DSS; DMSS

# Lite Series | DH-IPC-HFW2431T-AS-S2

Lite Series   Diff-FC-HFW24511-A5-32						
Mobile Phone	IOS; Android					
Certification						
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07					
Port						
Audio Input	1 channel (RCA port)					
Audio Output	1 channel (RCA port)					
Alarm Input	1 channel in: 5mA 3V–5V DC					
Alarm Output	1 channel out: 300mA 12V DC					
Power						
Power Supply	12V DC/PoE (802.3af)					
Power Consumption	< 7.7W					
Environment						
Operating Conditions	-40°C to +60°C ( $-40$ °F to +140°F)/less than ≤ 95% RH					
Storage Temperature	-40°C to +60°C (-40°F to +140°F)					
Protection Grade	IP67; IK10(optional)					
Structure						
Casing	Metal					
Dimensions	244.1 mm × Φ90.4 mm (9.61" × Φ3.26")					

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC-HFW2431TP-AS-S2	4MP Lite IR Fixed-focal Bullet Nework Camera, PAL			
	DH-IPC-HFW2431TN-AS-S2	4MP Lite IR Fixed-focal Bullet Nework Camera,NTSC			
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount			
Accessories	PFM321D	12V DC 1A Power Adapter			
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD card			

0.91 kg (2.0 lb)

1.16 kg (2.6 lb)

# Accessories

# **Optional:**



PFA130-E Junction Box



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA152-E Pole Mount



PFM900-E Integrated Mount Tester



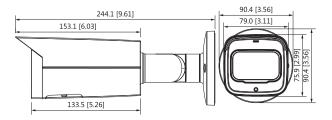
PFM321D 12V DC 1A Power Adapter

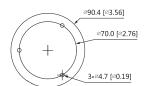


PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA130-E+PFA152-E	PFA130-E

# Dimensions (mm[inch])





Net Weight

Gross Weight